LISTING OF CLAIMS

1. (Currently amended) A residential backup power system connectable to a utility power source, an external controller, and a plurality of loads, the system comprising:

a residential generator;

a switch connected to the residential generator and connectable to the utility power source, the switch being adapted to controllably provide power received from one of the utility power source and the residential generator;

a plurality of remotely operated first-level circuit branches, each first-level circuit branch being connected to the switch to receive power from the switch and connectable to at least one load, each first-level circuit branch further including at least one remotely operated circuit breaker and having one of an open state and a closed state;

a remotely operated second-level circuit branch connected to the switch to receive power from the switch and connectable to at least one load, the second-level circuit branch including at least one remotely operated circuit breaker and having one of an open state and a closed state; and

a controller connected to the circuit breakers and the external controller, the controller being adapted to control the circuit breakers thereby controlling the states of the first- and second-level circuit branches, the controlling of the first- and second-level circuit branches including, after receiving power from the residential generator via the switch,

opening the second-level circuit branch;

closing at least one branch of the first-level circuit branches. branches; receiving an input from the external controller to close the second-level circuit branch; after receiving the input,

opening at least one branch of the closed first-level circuit branches; after opening at least one branch of the closed first-level circuit branches, closing the second-level circuit branch; and

after closing the second-level circuit branch, closing at least one branch of the opened first-level circuit branches.

2. (Original) A system as set forth in claim 1 wherein the input includes a voltage signal from the external controller.

- 3. (Original) A system as set forth in claim 1 wherein the external controller includes a thermostat and the input includes a voltage signal from the thermostat.
- 4. (Original) A system as set forth in claim 1 wherein opening at least one branch of the closed first-level circuit branches includes opening all of the first-level circuit branches.
- 5. (Currently amended) A system as set forth in claim 1 wherein closing at least one branch of the first-level circuit branches includes

closing a first branch of the first-level circuit branches, and sequentially closing a second branch of the first-level manage circuit branches.

6. (Original) A system as set forth in claim 5 wherein the system further includes a current sensor to sense a current provided by the residential generator and wherein closing at least one branch of the first-level branches further includes

prior to sequentially closing the second branch, sensing a current with the current sensor,

comparing the sensed current to a predetermined current, and performing the sequentially closing step if the sensed current is less than the predetermined current.

7. (Currently amended) A system as set forth in elaim 6 claim 5 wherein closing at least one branch of the first-level branches further includes

after sequentially closing the second branch, sensing a second current with the current sensor,

comparing the second sensed current to the to a predetermined current, and opening the second branch if the second sensed current is greater than the predetermined current.

8. (Currently amended) A system as set forth in claim 1 wherein closing at least one branch of the first-level branches includes

closing a first plurality of branches of the first-level circuit branches, and sequentially closing a second plurality of branches of the first-level manage circuit branches.

9. (Original) A system as set forth in claim 8 wherein the system further includes a current sensor to sense a current provided by the residential generator and wherein closing at least one branch of the first-level branches further includes

prior to sequentially closing the second plurality of branches, sensing a current with the current sensor,

comparing the sensed current to a predetermined current, and performing the sequentially closing step if the sensed current is less than the predetermined current.

10. (Currently amended) A system as set forth in claim 9 claim 8 wherein closing at least one branch of the first-level branches further includes

after the sequentially closing the second plurality of branches, sensing a second current with the current sensor,

determining if the second sensed current is less than the than a predetermined current, and

opening the second plurality of branches if the second sensed current is greater than the predetermined current.

11. (Original) A system as set forth in claim 1 wherein the plurality of remotely operated circuit branches are connectable to a plurality of loads and wherein the system further comprises:

at least one priority circuit branch connected to the switch to receive power provided by the switch and connectable to at least one priority load, the at least one priority circuit branch being adapted to continuously provide power received from the switch.

12. (Original) A system as set forth in claim 11 and further comprising:

at least one non-priority circuit branch connectable to the utility power source to receive utility power from the utility power source and connectable to at least one non-priority load, the non-priority circuit branch being adapted to provide only utility power to the non-priority load.

13. (Currently amended) A method of operating a power management system adapted to provide power from a primary power source and a secondary power source to a plurality of loads, the system including a plurality of remotely operated first-level circuit branches and a

remotely operated second-level circuit branch, each of the first- and second-level circuit branches being in one of an open state or a closed state, the method comprising:

connecting the plurality of first-level circuit branches and the second-level circuit branch to the secondary power source;

opening the second-level circuit branch; closing at least one branch of the first-level circuit branches. branches; receiving an input to close the second-level circuit branch; after receiving the input,

opening at least one branch of the closed first-level circuit branches;
after opening at least one branch of the closed first-level circuit branches,
closing the second-level circuit branch; and

after closing the second-level circuit branch, closing at least one branch of the opened first-level circuit branches.

- 14. (Original) A method as set forth in claim 13 wherein the input signal includes a voltage signal.
- 15. (Original) A method as set forth in claim 13 and further comprising: after closing at least one branch of the first-level circuit branches, opening the second-level circuit branch; and

repeating the steps of receiving an input to close the second-level circuit branch, opening all the first-level circuit branches, closing the second-level circuit branch, and closing at least one branch of the first-level circuit branches.

- 16. (Original) A method as set forth in claim 13 wherein opening at least one branch of the closed first-level circuit branches includes opening all of the first-level circuit branches.
- 17. (Currently amended) A method as set forth in claim 13 wherein the step of closing at least one branch of the first-level circuit branches includes

closing a first branch of the first-level circuit branches, and sequentially closing a second branch of the first-level manage circuit branches.

18. (Original) A method as set forth in claim 17 wherein the step of closing at least one branch of the first-level circuit branches includes

prior to the step of sequentially closing the second branch, sensing a current provided by the secondary power source,

comparing the sensed current to a predetermined current, and performing the sequentially closing step if the sensed current is less than the predetermined current.

19. (Currently amended) A method as set forth in elaim-18 claim 17 wherein the step of closing at least one branch of the first-level circuit branches includes

after the sequentially closing step, sensing a second current provided by the secondary power source,

comparing the sensed current to a predetermined current, and opening the second branch of the first-level manage circuit branches if the second sensed current is greater than the predetermined current.

20. (Currently amended) A method as set forth in claim 13 wherein the step of closing at least one branch of the first-level circuit branches includes

closing a first plurality of branches of the first-level circuit branches, and sequentially closing a second plurality of branches of the first-level manage circuit branches.

21. (Original) A method as set forth in claim 20 wherein the step of closing at least one branch of the first-level circuit branches includes

prior to the step of sequentially closing the second plurality of branches, sensing a current provided by the secondary power source,

comparing the sensed current to the predetermined current, and performing the sequentially closing step if the sensed current is less than the predetermined current.

22. (Currently amended) A method as set forth in elaim 21 claim 20 wherein the step of closing at least one branch of the first-level circuit branches includes

after the sequentially closing step, sensing a second current provided by the secondary power source,

comparing the second sensed current to the to a predetermined current, and

opening the second plurality of branches if the second sensed current is greater than the predetermined current.

23. (Original) A method as set forth in claim 13 and further comprising: prior to the connecting step,

connecting the plurality of first-level circuit branches and the second-level circuit branch to the primary power source; and

disconnecting the plurality of first-level circuit branches and the second-level circuit branch to the primary power source, when the primary power source provides inadequate power.

24. (Original) A method as set forth in claim 13 wherein the primary power source includes a utility power source and the second power source includes a residential generator.

25-43. (Cancelled)